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## **CLAIMS**

- 1. An apparatus for treating urinary incontinence, comprising:
  - (a) a support section adapted for providing at least one of urethral support and pressure against a portion of the urethra;
  - (b) an anchoring section adapted for resisting movement of said apparatus;
- (c) a normally open expansion mechanism adapted to urge said support section radially outwards; and
- (d) a conversion mechanism adapted to provide a mechanical gain such that an axial force used to activate the conversion mechanism is substantially smaller than the reduction in radial force exerted by said support section.
- 2. Apparatus according to claim 1, wherein said support section comprises a plurality of support arms.
- 3. Apparatus according to claim 2, wherein said support section is configured to provide urethra support.
- 4. An apparatus according to claim 3, wherein the expansion mechanism is adapted to urge without a force applied from outside the apparatus.
- 5. An apparatus according to claim 3 or claim 4, wherein the conversion mechanism is adapted to respond to a deforming force by axially extending, thereby causing radial collapse of the support arms.
- 6. An apparatus according to claim 5, wherein the expansion mechanism is adapted to revert to the normally open state upon removal of the force.
- 7. An apparatus according to any of claims 3-6, wherein said distal ends of said support arms apply sufficient force to vaginal walls to ameliorate incontinence.

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- 8. An apparatus according to any of claims 3-7, wherein said conversion mechanism is adapted to urge said support arms radially inwards in response to a force applied from outside the apparatus.
- 9. An apparatus according to claim 8, wherein the conversion mechanism comprises a string attached to a hub of the expansion mechanism.
- 10. An apparatus according to any of claims 3-9, comprising:
  a loading element connected to the expansion mechanism and adapted to urge at least a portion of the expansion mechanism axially towards said anchoring section.
- 11. An apparatus according to claim 10, wherein the loading element comprises an elastic string adapted for attachment to a hub section of the expansion mechanism.
- 12. Apparatus according to any of claims 3-11, wherein said support arms are hinged.
- 13. Apparatus according to claim 12, wherein said support arms each comprise at least two hinges.
- 14. Apparatus according to any of claims 3-13, wherein said support arms are flexible.
- 15. Apparatus according to any of claims 3-14, wherein urethral support is midurethral support.
- 16. Apparatus according to any of claims 3-15, wherein said expansion mechanism and said support section are integrally attached to one another.

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- 17. Apparatus according to claim 16, wherein said integral attachment to one another comprises integral hinges:
- 18. Apparatus according to any of claims 3-15, wherein said expansion mechanism and said support section comprise separate elements assembled to form the apparatus.
- 19. Apparatus according to claim 18, wherein said expansion mechanism and said support section are connected by hinges.
- 20. An apparatus according to any of claims 3-19, wherein said apparatus is flexible.
- 21. Apparatus according to any of claims 3-20, wherein the expansion mechanism comprises elastic portions.
- 22. Apparatus according to any of claims 3-21, wherein the expansion mechanism comprises rigid portions.
- 23. Apparatus according to any of claims 1-22, wherein urethral support includes bladder neck support.
- 24. Apparatus according to any of claims 1-23, comprising a cover.
- 25. Apparatus according to claim 24, comprising a cover collapse mechanism.
- 26. Apparatus according to any of claims 1-25, wherein said apparatus is rotationally symmetric.
- 27. Apparatus according to any of claims 1-26, wherein said apparatus is configured to operate independently of a rotational insertion angle.

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- Apparatus according to any of claims 1-27, wherein said apparatus is configured to allow passage of vaginal discharges therethrough when inserted.
- 29. An apparatus according to any of claims 1-28, wherein the expansion mechanism and the conversion mechanism are separate elements.
- 30. An apparatus according to any of claims 1-29, wherein substantially smaller is less than 70% of the reduction in radial force exerted by the support section.
- 31. An apparatus according to any of claims 1-29, wherein substantially smaller is less than 50% of the reduction in radial force exerted by the support section.
- An apparatus according to any of claims 1-29, wherein substantially smaller is less than 40% of the reduction in radial force exerted by the support section.
- 33. An apparatus according to any of claims 1-29, wherein substantially smaller is less than 30% of the reduction in radial force exerted by the support section.
- An apparatus according to any of claims 1-29, wherein substantially smaller is less than 20% of the reduction in radial force exerted by the support section.
- 35. A method for ameliorating urinary incontinence, the method comprising:
  - (a) intra-vaginally inserting an apparatus which provides at least one of support of pressure to a urethra, by a support section thereof;
  - (b) collapsing said support section after said insertion by application of force generally along an axis of said vagina;
  - (c) repositioning said apparatus by said axial force; and
  - (d) reducing said force to allow said support section to uncollapse and refunction as a support section.

- 36. A method according to claim 35, wherein said collapsing comprises displacing a radially outwards urging element by said force.
- 37. A method according to claim 35, wherein said collapsing comprises displacing a rigidizing element by said force.
- 38. A method according to any of claims 35-37, wherein said collapsing comprises applying a greater axial force to start collapsing than to complete collapsing.
- 39. A method according to any of claims 35-38, wherein said collapsing comprises first increasing a radial extent of said support section as part of said collapsing.
- 40. A method according to any of claims 35-39, comprising removing said apparatus using said force after (c).
- 41. A method according to any of claims 35-40, wherein inserting comprises inserting in a manner substantially oblivious to a rotational orientation of said apparatus.
- 42. An apparatus for treating urinary incontinence, comprising:
  - (a) an anchor section comprising a plurality of anchor legs; and
- (b) a support section axially aligned with the anchor section and comprising a plurality of support arms;

wherein no anchor leg is in direct axial alignment with a support arm.

- 43. Apparatus according to claim 42, wherein a number of anchor legs is equivalent to a number of support arms.
- 44. An apparatus for treating urinary incontinence, comprising:
- (a) an anchor section comprising a plurality of anchor legs and an anchor connector; and

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(b) a support section comprising a plurality of support arms and a support connector;

wherein the anchor connector and support connector are adapted for connection one to another.

- 45. An apparatus according to claim 44, wherein connection of the anchor connector and support connector one to another fixes an axial alignment of the anchor legs and support arms.
- 46. An apparatus according to claim 44, wherein connection of the anchor connector and support connector one establishes a rotating joint between the anchor section and the support section.